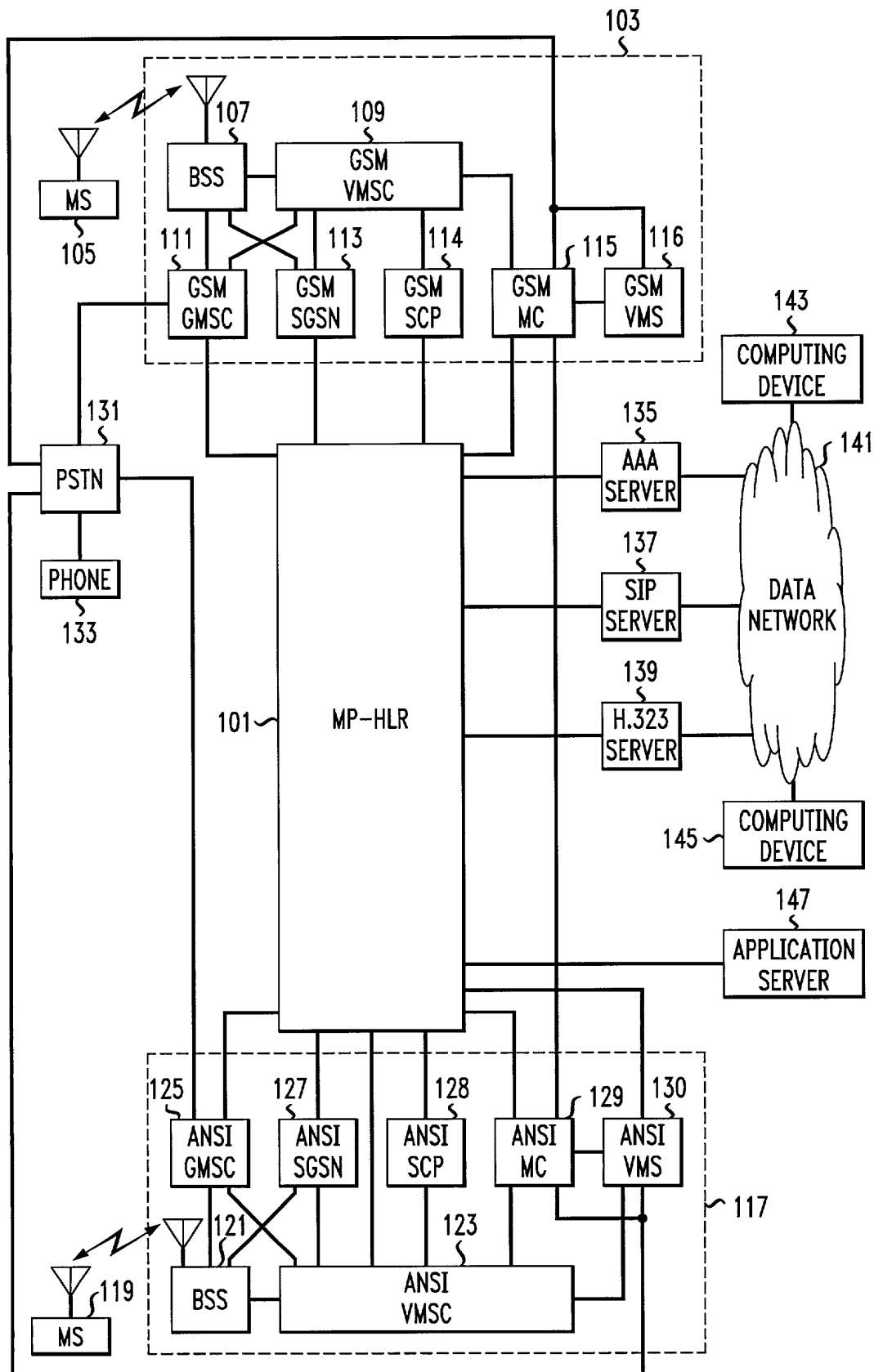


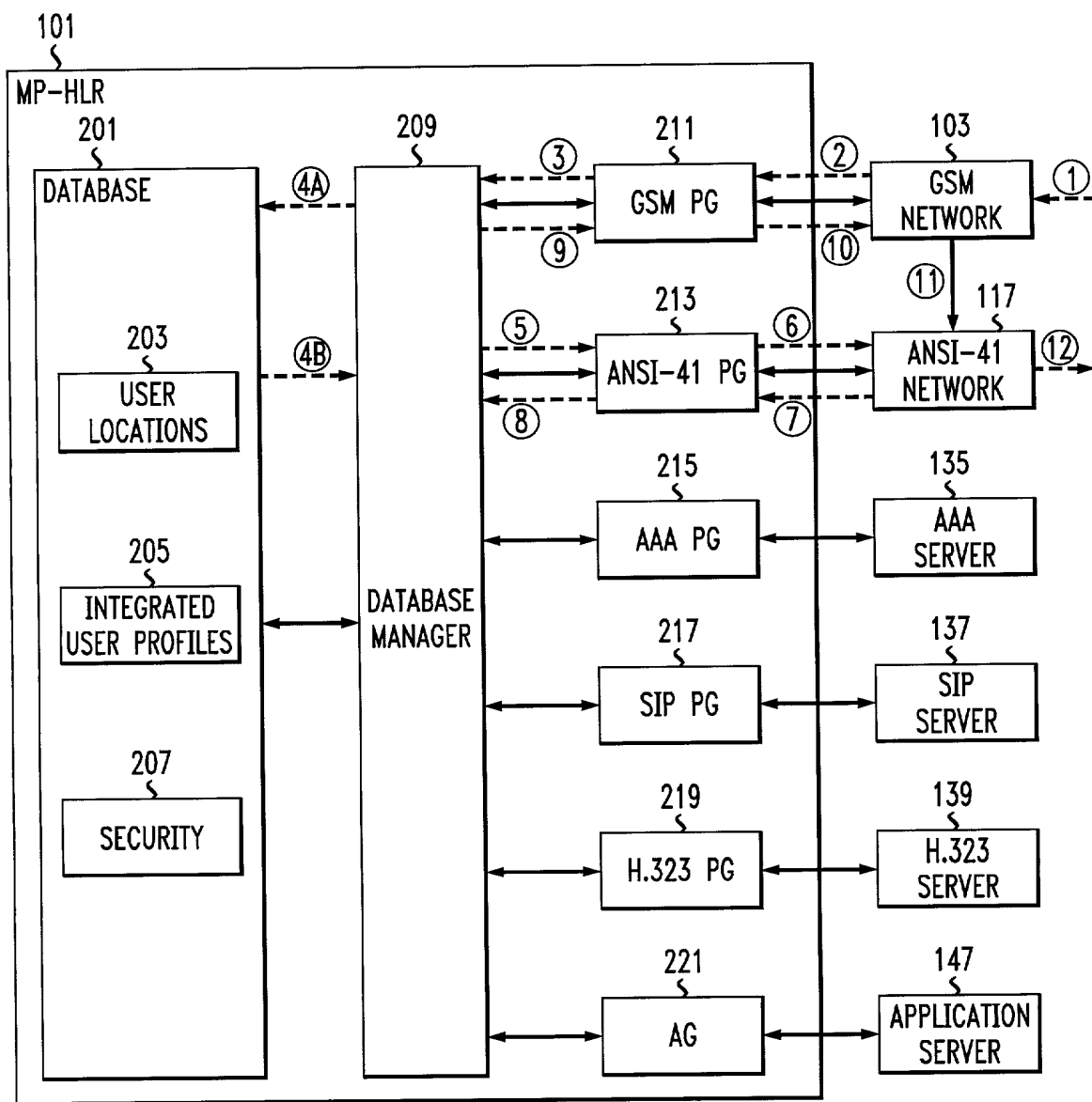
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FIG. 1



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FIG. 2



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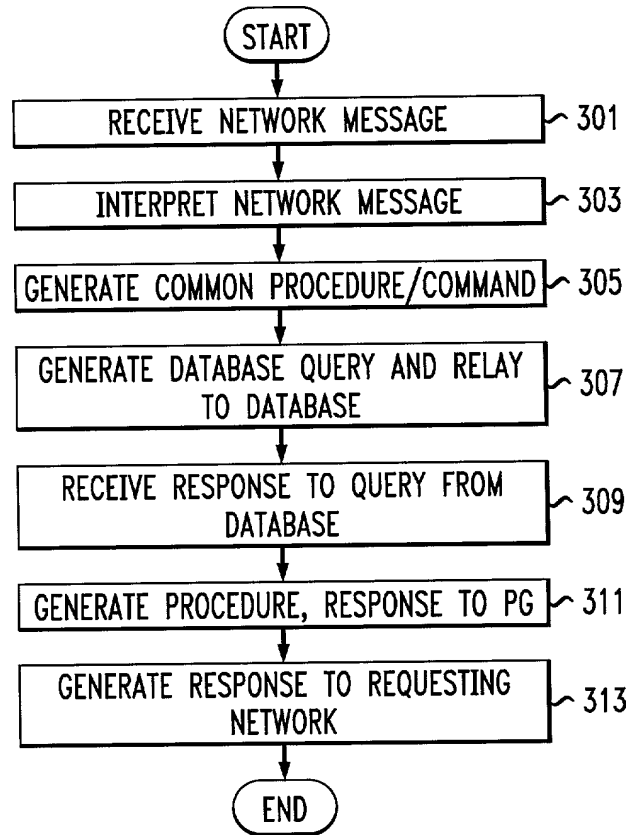
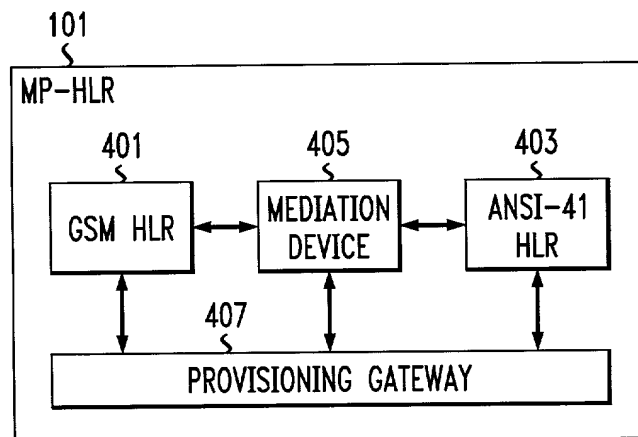
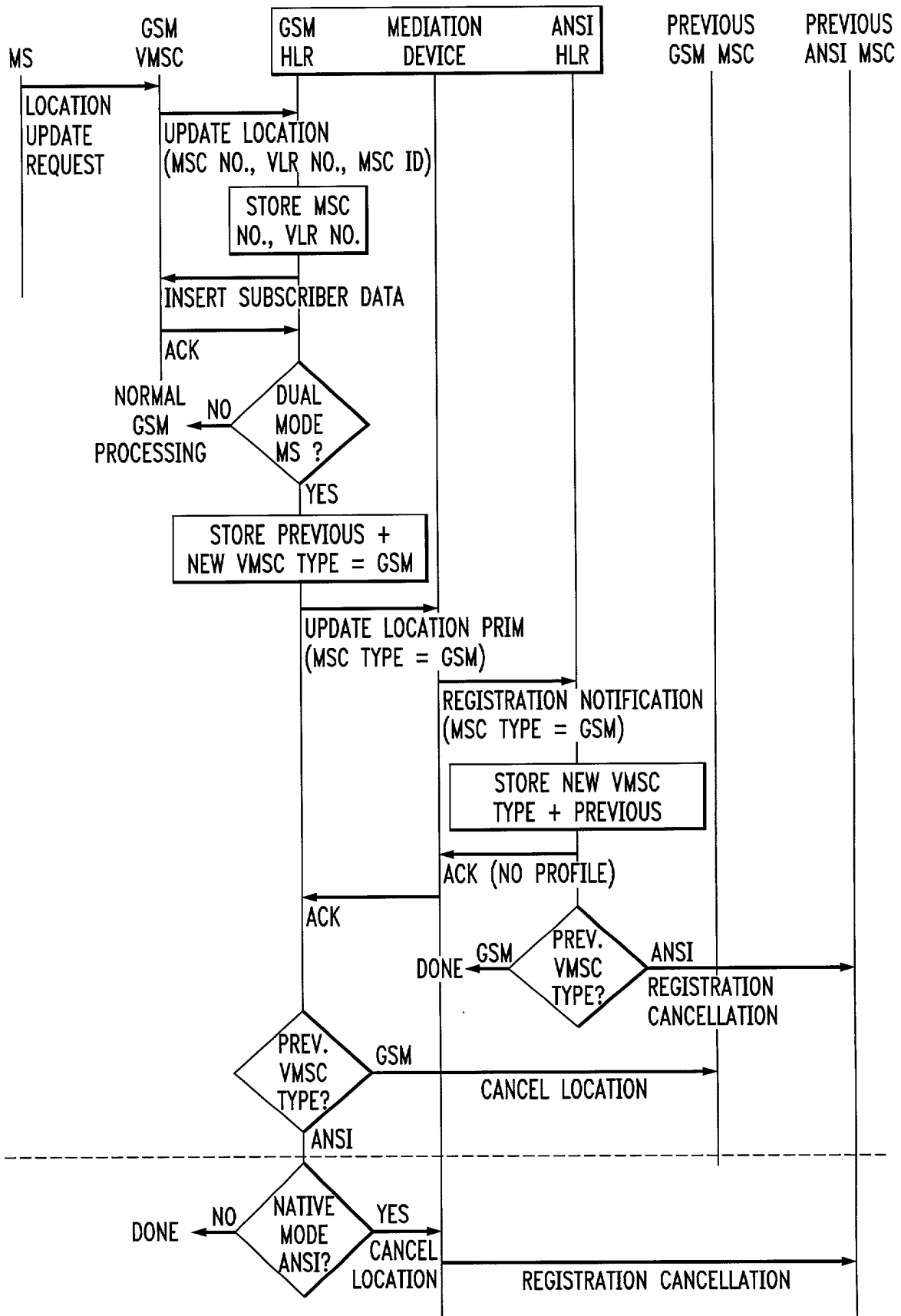
FIG. 3*FIG. 4*

FIG. 5

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GSM REGISTRATION NATIVE MODE

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```

sequenceDiagram
    participant MS
    participant ANSI_136_VMSC as ANSI-136 VMSC
    participant ANSI_HLR as ANSI HLR
    participant MED_DEVICE as MEDIATION DEVICE
    participant GSM_HLR as GSM HLR
    participant PREVIOUS_GSM_MSC as PREVIOUS GSM MSC
    participant PREVIOUS_ANSI_MSC as PREVIOUS ANSI MSC

    MS->>ANSI_136_VMSC: REGISTRATION (ESN, MIN)
    ANSI_136_VMSC->>ANSI_HLR: AUTHENTICATION REQ
    ANSI_HLR-->>ANSI_136_VMSC: ACK
    ANSI_136_VMSC->>ANSI_HLR: REGISTRATION NOTIFICATION (ESN, MIN, MSC ID)
    Note over ANSI_136_VMSC: STORE MSC NEW MSC ID
    ANSI_HLR-->>ANSI_136_VMSC: ACK (PROFILE)
    ANSI_136_VMSC-->>MS: NORMAL ANSI PROCESSING
    Note over ANSI_136_VMSC: DUAL MODE MS ?
    Note over ANSI_136_VMSC: NO
    Note over ANSI_136_VMSC: YES
    Note over ANSI_136_VMSC: STORE PREVIOUS + NEW VMSC TYPE = ANSI
    ANSI_136_VMSC->>ANSI_HLR: REGISTRATION NOTIFICATION (MSC TYPE = ANSI)
    ANSI_HLR->>MED_DEVICE: UPDATE LOCATION (MSC TYPE = ANSI)
    Note over MED_DEVICE: STORE NEW VMSC TYPE + PREVIOUS
    MED_DEVICE-->>ANSI_HLR: ACK
    ANSI_HLR-->>ANSI_136_VMSC: ACK (NO PROFILE)
    Note over MED_DEVICE: PREV. VMSC TYPE ?
    Note over MED_DEVICE: ANSI
    Note over MED_DEVICE: GSM
    Note over MED_DEVICE: CANCEL LOCATION
    Note over MED_DEVICE: DONE
    Note over MED_DEVICE: REGISTRATION CANCELLATION
    Note over MED_DEVICE: PREVIOUS VMSC TYPE ?
    Note over MED_DEVICE: ANSI
    Note over MED_DEVICE: GSM
    Note over MED_DEVICE: CANCEL LOCATION
    Note over MED_DEVICE: REGISTRATION CANCELLATION
    Note over MED_DEVICE: CANCEL LOCATION
    Note over MED_DEVICE: DONE
    Note over MED_DEVICE: NATIVE MODE GSM ?
    Note over MED_DEVICE: YES
    Note over MED_DEVICE: REGISTRATION CANCELLATION
    Note over MED_DEVICE: CANCEL LOCATION
    Note over MED_DEVICE: NO
    Note over MED_DEVICE: DONE

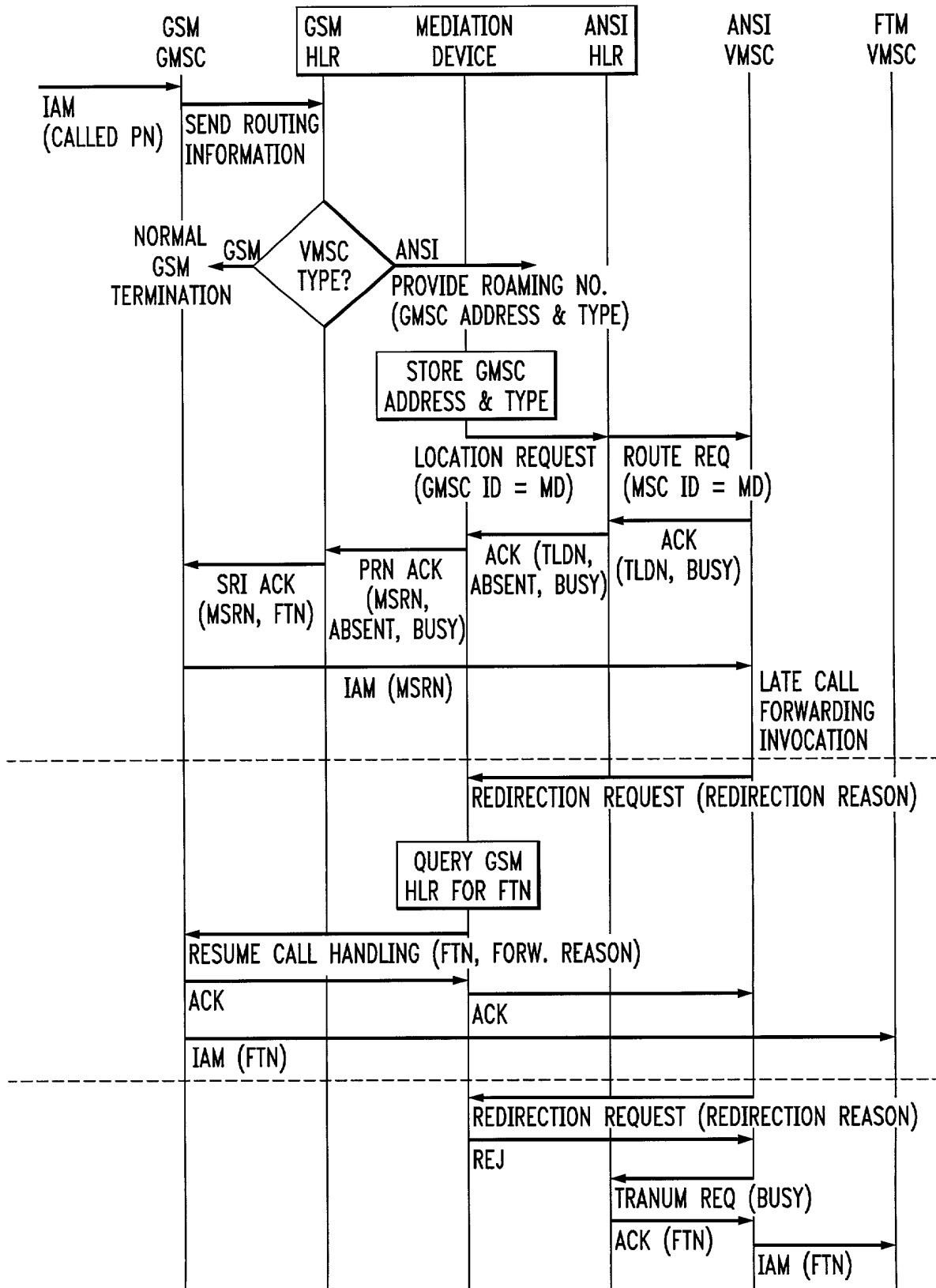
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FIG. 7

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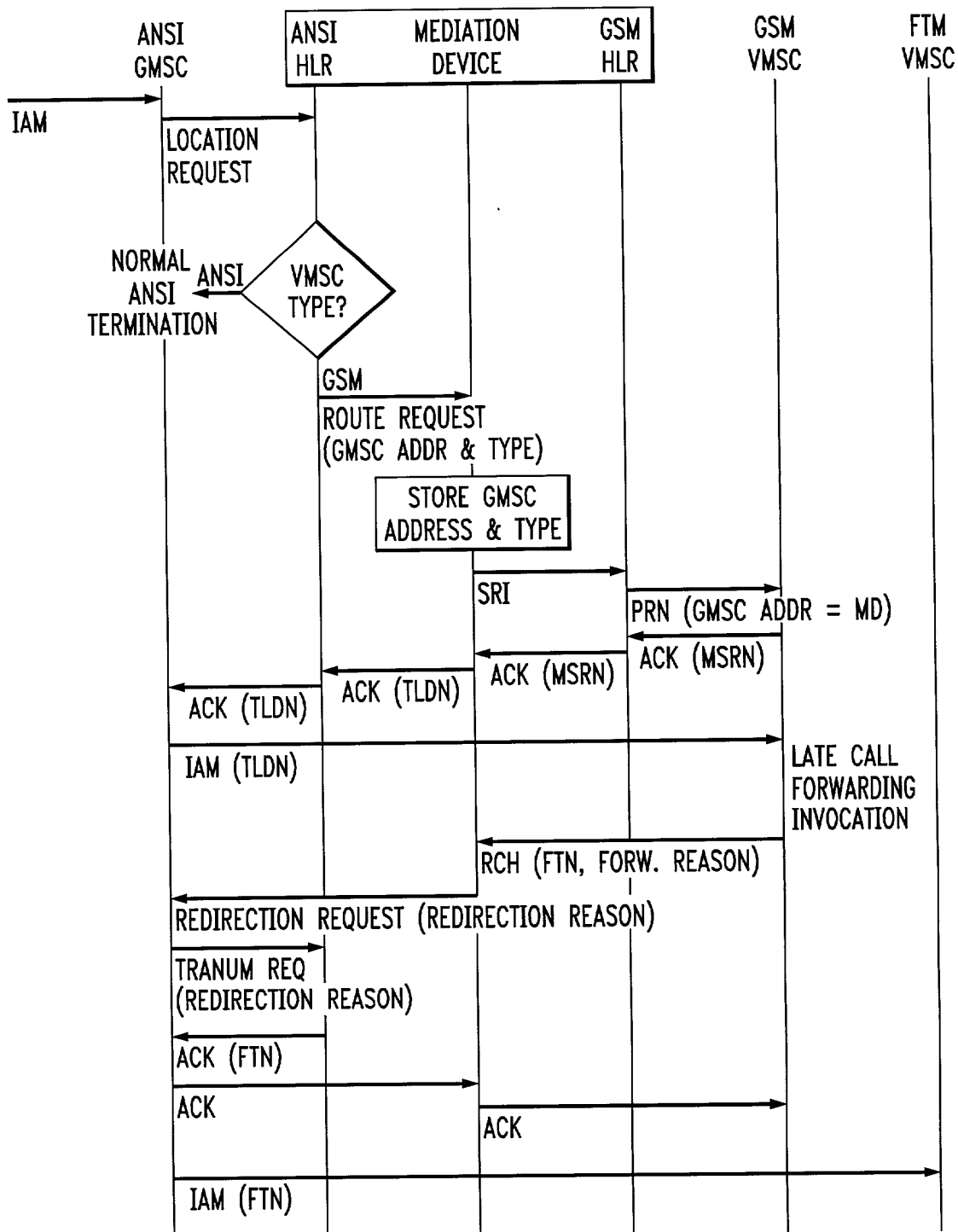
CALL DELIVERY: GMSC = GSM, VMSC = ANSI



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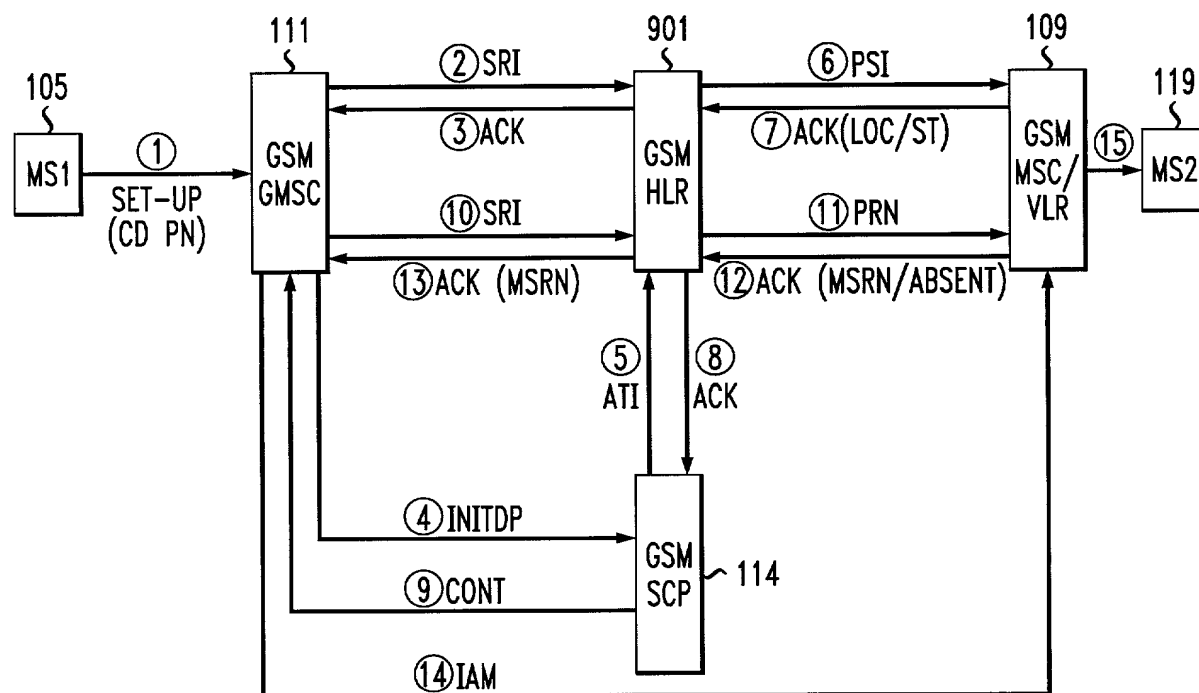
FIG. 8

CALL DELIVERY: GMSC = ANSI, VMSC = GSM



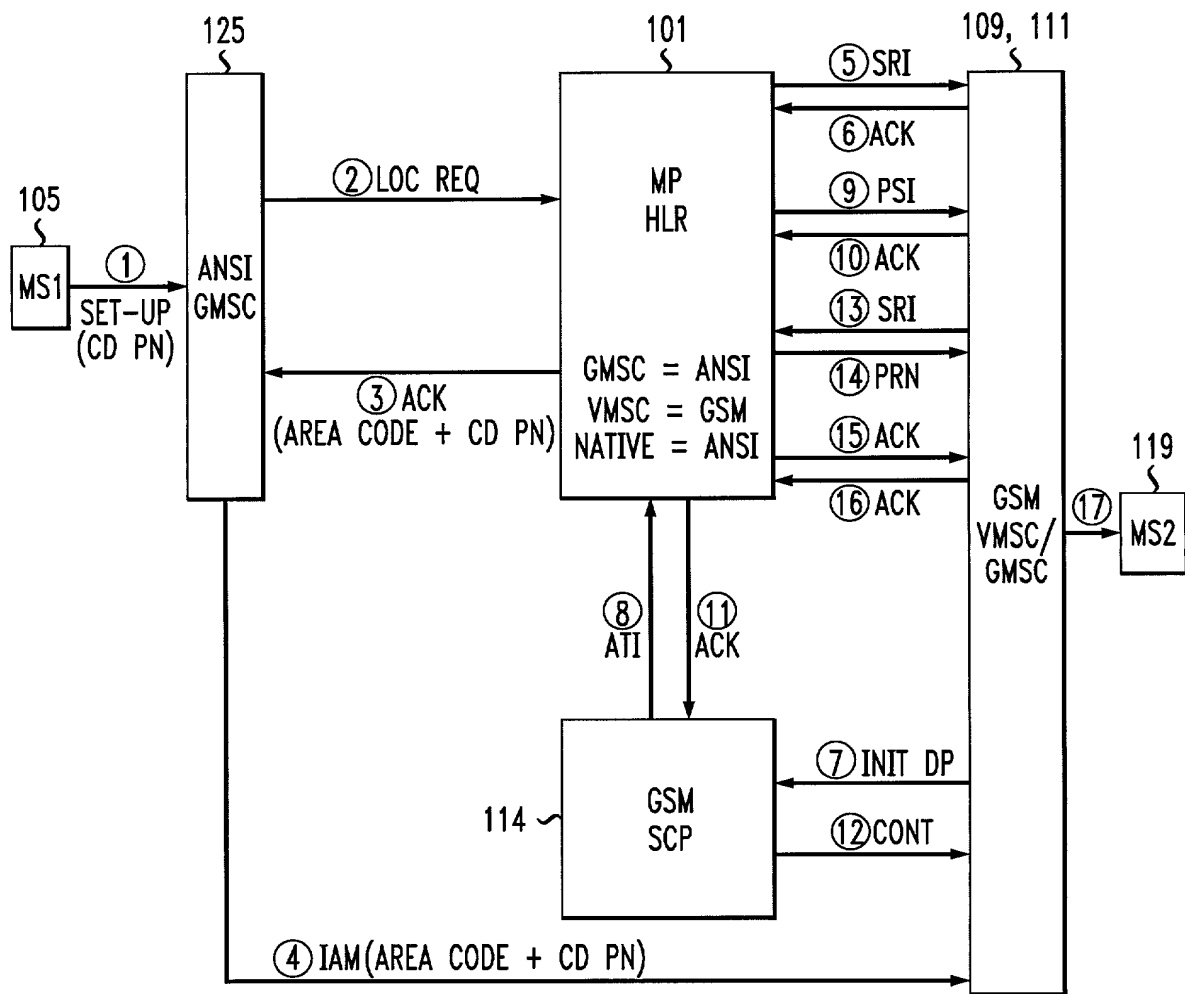
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FIG. 9
PRIOR ART



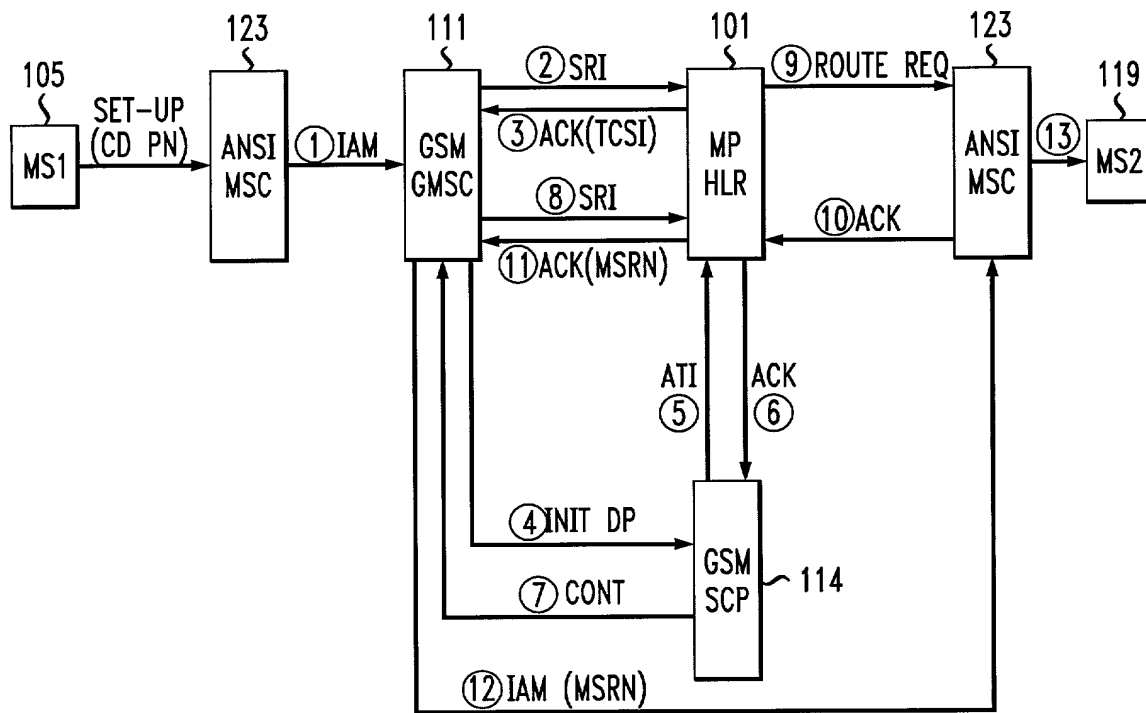
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FIG. 10



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FIG. 11



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FIG. 12

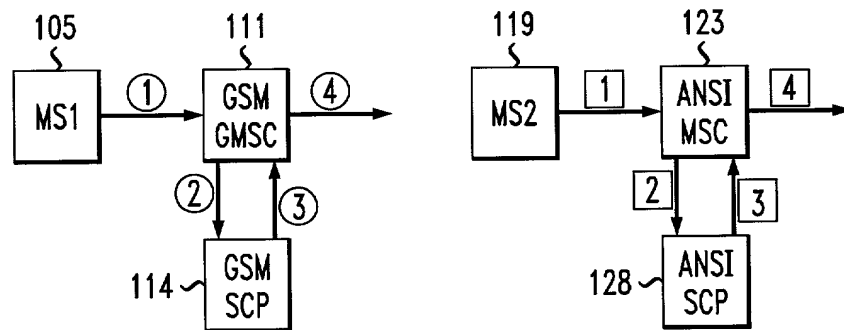
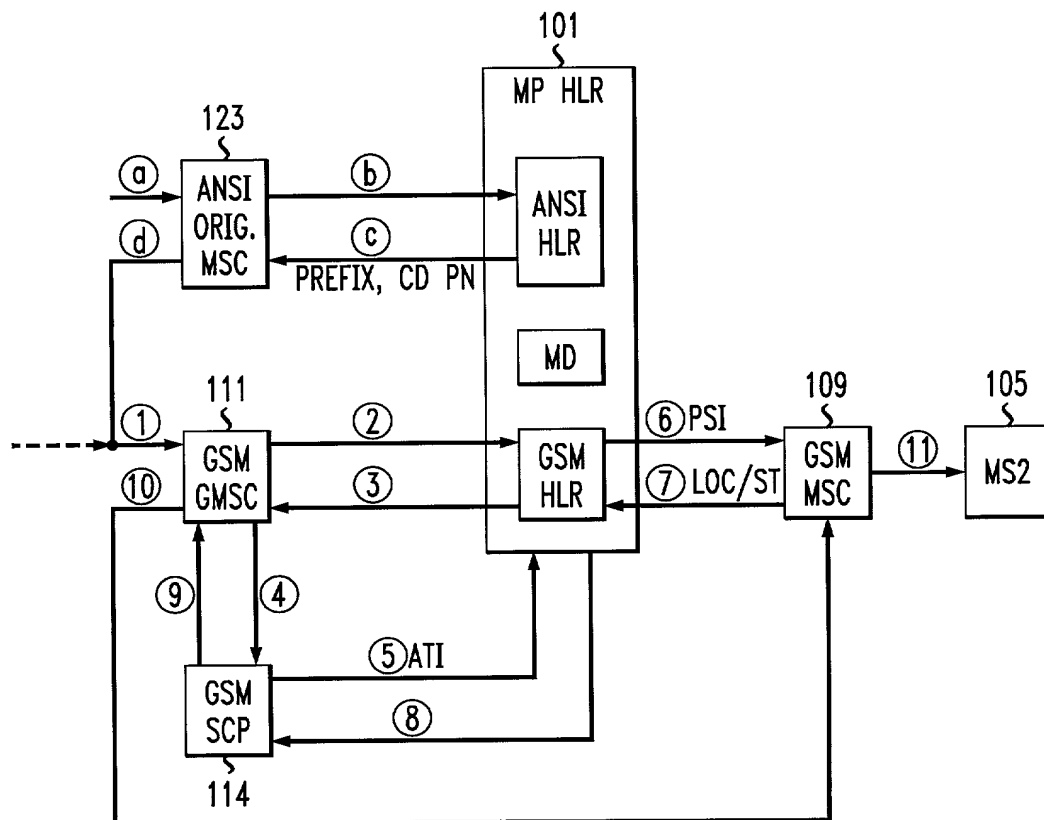


FIG. 13



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FIG. 14

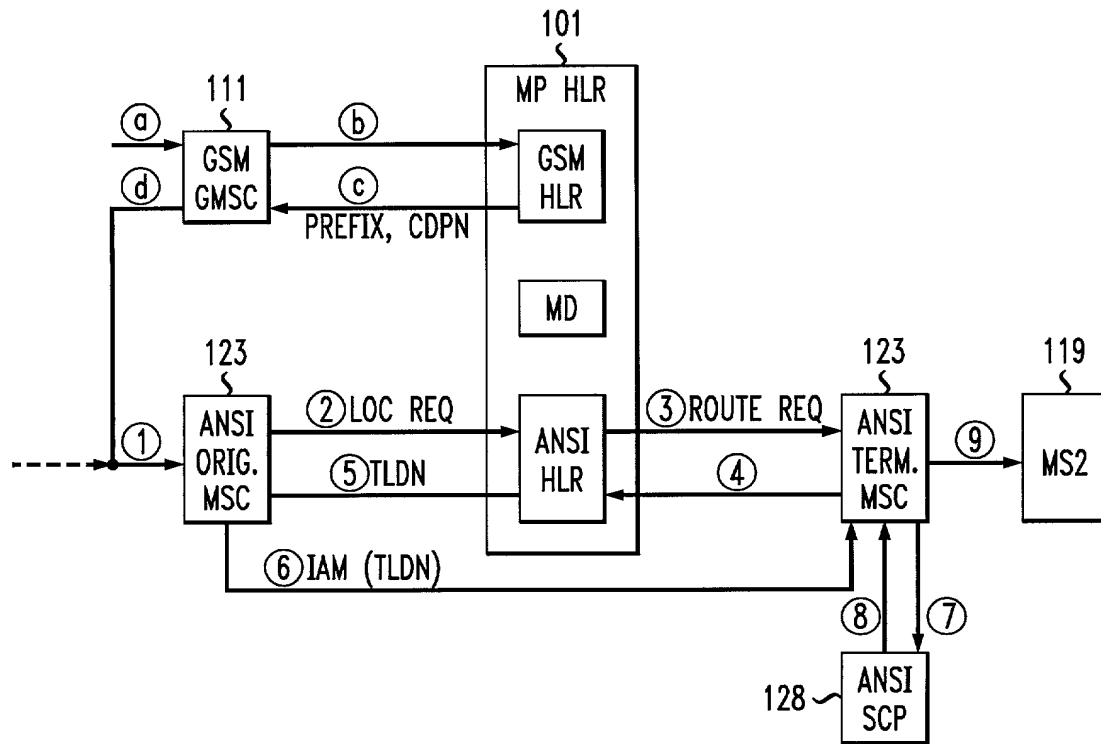
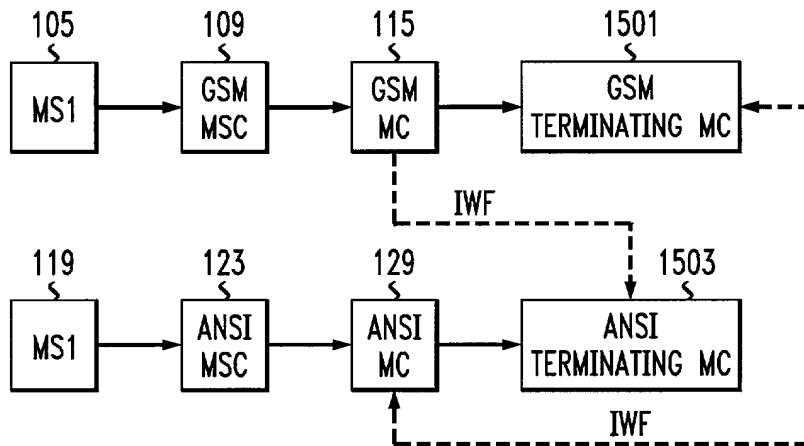


FIG. 15



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FIG. 16

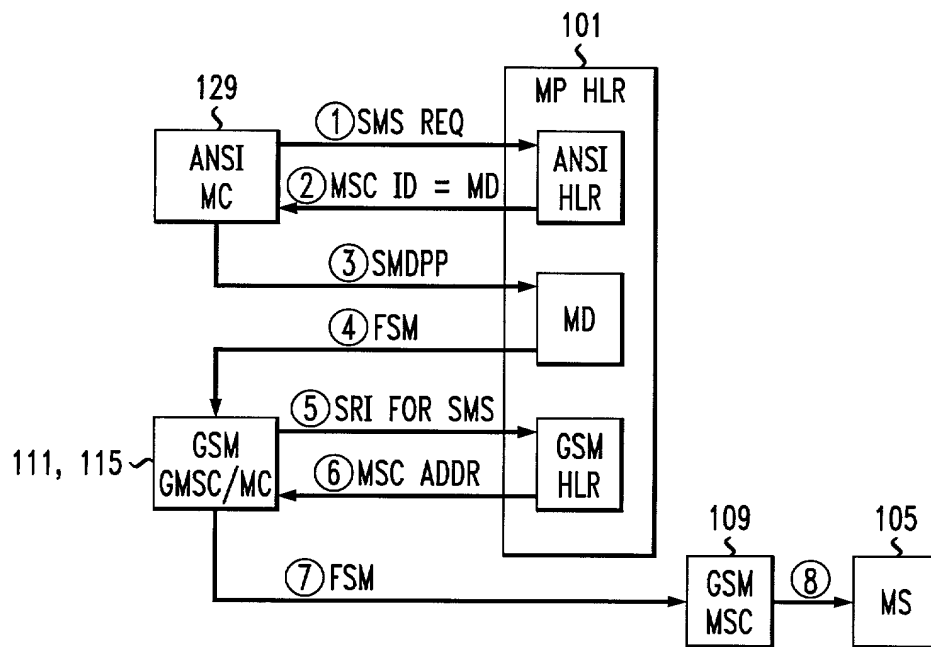
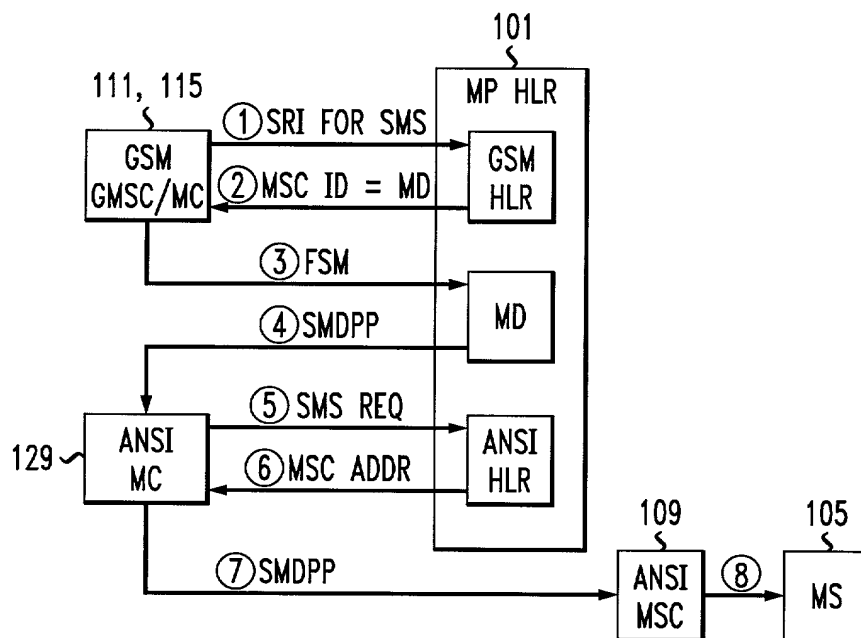


FIG. 17



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FIG. 18

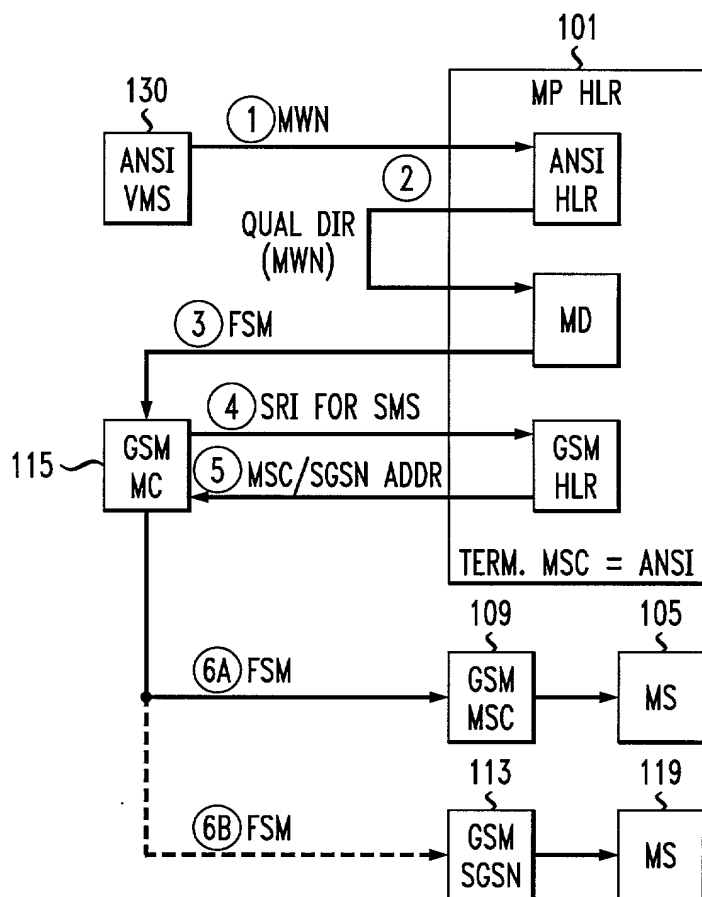


FIG. 19

